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University of North Texas Center for Human Identification (UNTCHI) Resources



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Disclaimer

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Agenda

- Missing and Unidentified Human Remains (MUHR) Program Case Submission
 - Mark Pooley
- Forensic Genetic Genealogy (FGG) Services
 - Dixie Peters
- Sexual Assault Kit Initiative (SAKI)
 Resources for UHRs from Sexually Motivated Homicides
 - Robert Moore





Images provided by CH





UNTCHI's MUHR Purpose Area 3 Award – Resources for Missing and Unidentified Indigenous Persons Investigations

Mark Pooley

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What does the MUHR Program do for Missing and Unidentified Indigenous Person Investigations?

- Provides DNA testing for Unidentified Human Remains (UHR) samples
- Provides DNA testing for Family Reference Samples (FRS) collected from family members of the missing person
- The obtained DNA samples will be entered into the Combined DNA Index System (CODIS)
- Provides Mitochondrial, Short Tandem Repeat (STR), and Y-STR DNA testing



CHI Works With Several Partners Nationwide

- Tribal Law Enforcement
- Municipal (City) Law Enforcement
- State Agencies (e.g., Medical Examiners)
- Federal Partners

The MUHR Award allows free DNA testing for these partners who are investigating Missing and Unidentified Indigenous Person cases.



Utilizing MUHR Resources at CHI

 Identify unresolved missing or unidentified person cases where the victim is American Indian/Alaska Native in your jurisdiction

- 2. Find out if the missing or unidentified person has been entered into CODIS
- 3. If they have not been entered into CODIS or need supplemental DNA testing (Mitochondrial, Y-STR), reach out to CHI to discuss eligibility



MUHR Point of Contact

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Forensic Genetic Genealogy (FGG) Services

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What does the MUHR Program do for Missing and Unidentified Indigenous Person Investigations?

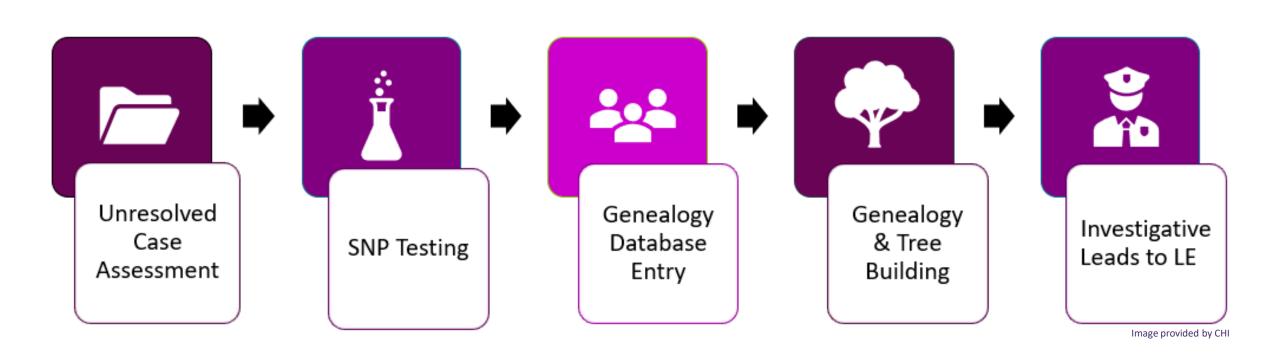
- Provides DNA testing for UHR samples
- Provides DNA testing for FRS collected from family members of the missing person
- The obtained DNA samples will be entered into CODIS
- Provides FGG testing for UHR samples



After CODIS

- If searches within CODIS do not lead to an identification, additional testing may be performed
- FGG uses Single Nucleotide Polymorphisms (SNPs) which are compatible with Direct-to-Consumer (DTC) genealogical databases
- Some of these databases allow law enforcement (LE) searches
- Only cases classified as "homicide" or "suspected" homicide are eligible for FGG services







CHI offers multiple SNP methodologies



Qiagen's ForenSeq® Kintelligence Kit 10,230 SNPs



Illumina Infinium Assay (Global Screening Array) 650,000 SNPs



Illumina DNA Prep & NovaSeq 6000 3 billion data points

Image provided by CHI

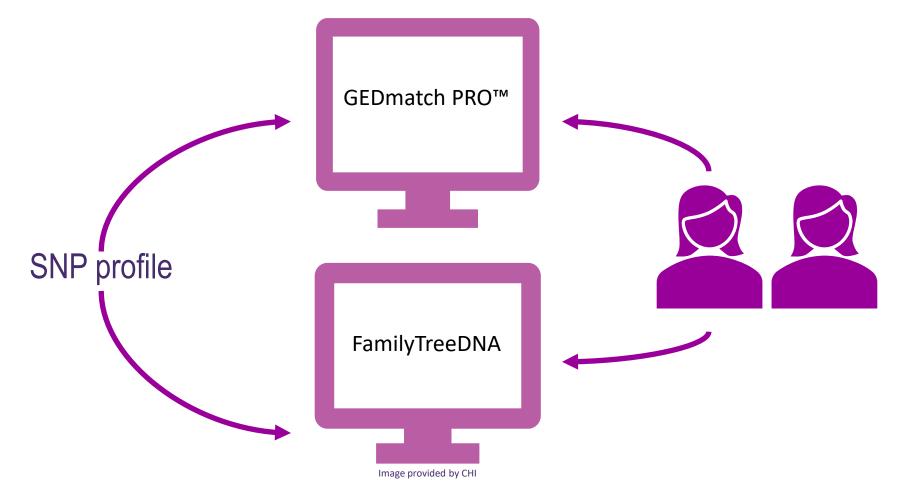


DNA Extract Requirements

- STR DNA profile obtained first
 - Testing may have been performed at another accredited forensic laboratory
- Negative CODIS searches
- DNA extract available including an extraction blank
- If the volume and DNA concentration meets the SNP methodology requirements, testing may proceed
- United States Department of Justice Interim Policy Forensic Genetic Genealogical DNA Analysis and Searching is followed



Multiple DTC Genealogical Databases Allow LE Searches





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Sexual Assault Kit Initiative (SAKI) Training and Technical Assistance (TTA) Purpose Area 2 Resources for UHRs from Sexually-Motivated Homicides

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What is "Sexually-Motivated"?

- Victim found totally or partially nude
- Victim's genitalia exposed
- Victim found sexually posed
- An object has been inserted into a body cavity
- Evidence of some form of sexual contact
- Evidence of sexual activity or sadistic sexual fantasy at the scene

If you can reasonably articulate that at least one of these circumstances exists, this case may be eligible for resources under CHI's SAKI TTA PA 2 award.



What Does the SAKI TTA Purpose Area 2 Grant Do?

- Provides DNA testing for UHR samples for Jane/John Doe homicide victims where a sexual nexus exists
- Provides DNA testing for FRS collected from potential family members of the victim
- Provides entry of obtained DNA samples into CODIS
- Allows for the development of a SNP profile for FGG if no associations are made through CODIS



SAKI TTA Purpose Area 2 Point of Contact

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Questions?

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